

Applicant: Jihong Liong et al.
Serial No.: 10/010,731
Howrey matter No.: 11899.0193.DVUS02
Title: Antifungal Polypeptide from Alfalfa and Methods for
Controlling Plant Pathogenic Fungi
Attorney: Darrell Dotson 713.787.1524

SEQUENCE LISTING

TGTCAAACACACACATAACACATAAGTGACCGTGAGTCATTAAATTTATATATATTCATCAATC
TAATCAACTATGAGAGAAGAAATCACTAGCTGGCTTATGCTTCCTCTTCTTGTTCTTGT
M E K K S L A G L C F L F L V L F V
GCACAAGAAATTGTGTGACAGAGCCAGACATGTGAGAATTTGGCAGATAAATATAGGGAC
A Q E I V V T E A R T C E N L A D K Y R G P
CATGCTTAGTGGTTGTGACACTCACTGCACACCAAGAGAAGCAGTTAGTGGAAGGTGTAG
C F S G C D T H C T T K E N A V S G R C R
GGACGACTTCGCTGCTGGTGTACTAAAGATGTTAAATGGATCTCCTCCAACATCAAGATGTG
D D F R C W C T K R C *
CATGGAATAGTCTTTATAATAAAACTAAATAAATAAATGCACGCGAGTATAGCTACAACCTCAT
CTATTATATGTACTCAATATATCGNGCATAACGTAATTAGTTATGCACCTTCTATCATATGGAATAAA
CATAATAAGTAATTTCGNTCCAAAAAATAAAAAAAAAAAAAA

FIG. 1

Applicant: Jihong Liong et al.
 Serial No.: 10/010,731
 Howrey matter No.: 11899.0193.DVUS02
 Title: Antifungal Polypeptide from Alfalfa and Methods for
 Controlling Plant Pathogenic Fungi
 Attorney: Darrell Dotson 713.787.1524

PI230	MEKSLACLSELLLVFVAQEIVSEANTCENLAGSYKGVCFGGCDRHCRITQGAISGRCRDDFRWCCTKNC
A1fAFP2	MEKSLAGLCFLFLVLFVEQEIMVTEAATCENLANTYRGPCFGGCDFHCKTKEHLLSGRCRDDFRCCXXXX
A1fAFP1	XXXXXXXXXGCLCFLFLVLFVAQEIVTEARTCENLADKYRGPCFSGCDTHCTKENAVSGRCRDDFRWCCTKRC
PI230	MEKSLACLSELLLVFVAQEIVSEANTCENLAGSYKGVCFGGCDRHCRITQGAISGRCRDDFRWCCTKNC

FIG. 2

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
 DATE 08-11-2010 BY 60322 UCBAW/STP

```
A1fAFP2
A1fAFP1
-----
TGTCAAACACACACATAACACATAAGTGACCGTGAGTCATTAAATTATA
-----

A1fAFP2
A1fAFP1
-----
TATATTCAATCAATCTAATCAACTATGGAGAAGAAATCACTAGCTGGCTTA
-----CTGGCTTA
*****

A1fAFP2
A1fAFP1
-----
TGCTTCCTCTCTCCTCGTTCCTCTTGTGGAACAAGAAATTATGGTGACCGAG
TGCTTCCTCTCTCTGTTGTTCTCTTGTGACACAAGAAATTGTGTGACAGAA
***** * ***** *****

A1fAFP2
A1fAFP1
-----
GCAGCTACTTGTGAGAATTGGCTAACACATACAGGGGACCATGCTTCGGT
GCCAGACATGTGAGAAATTGGCAGATAAATATAGGGGACCATGCTTAGT
** ** ***** * * ** *****

A1fAFP2
A1fAFP1
-----
GGTTGTGACTTTCACCTGCAAAACCAAGAACACTTACTTAGCGXAGGTGC
GGTTGTGACACTCAGCTGCACAAACCAAGAGAACGCAGTTAGTGGAAGGTGT
***** ***** ** * *****

A1fAFP2
A1fAFP1
-----
AGGGACGACTTCCGCTGCTGCTGGATCC
AGGGACGACTTCCGCTGCTGCTGGATCC
*****
```

FIG. 3

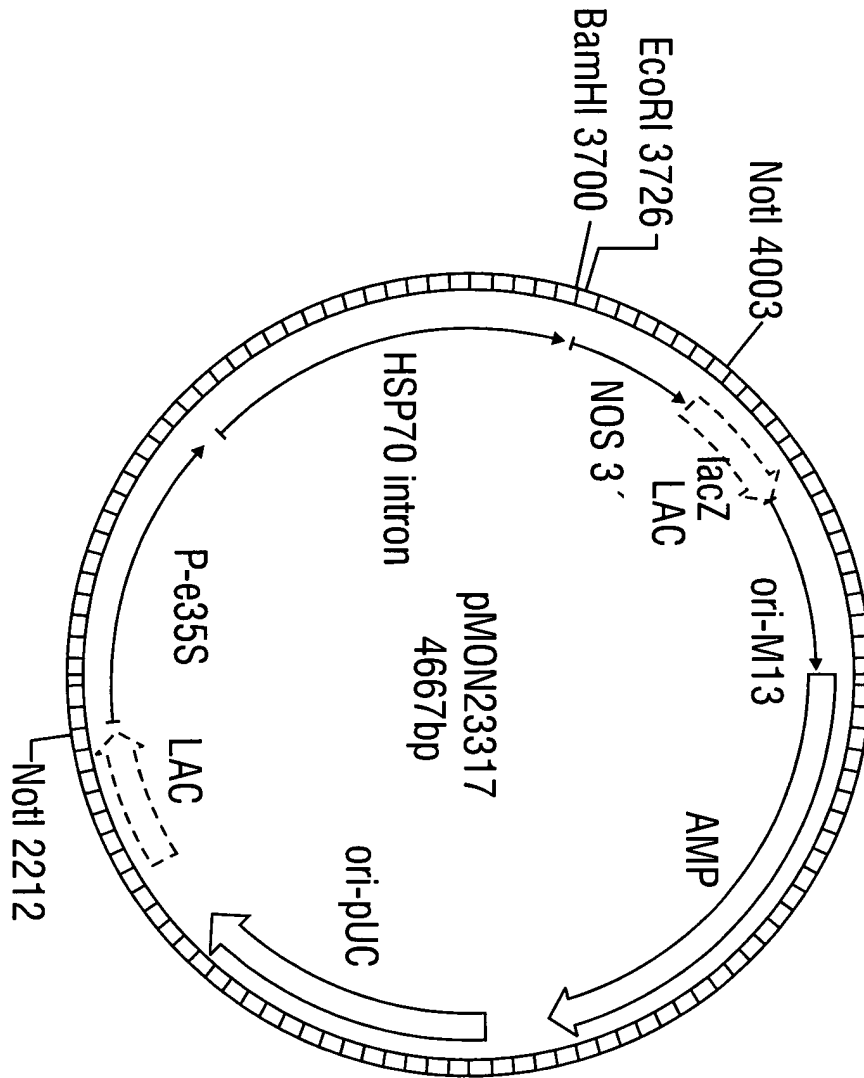


FIG. 4

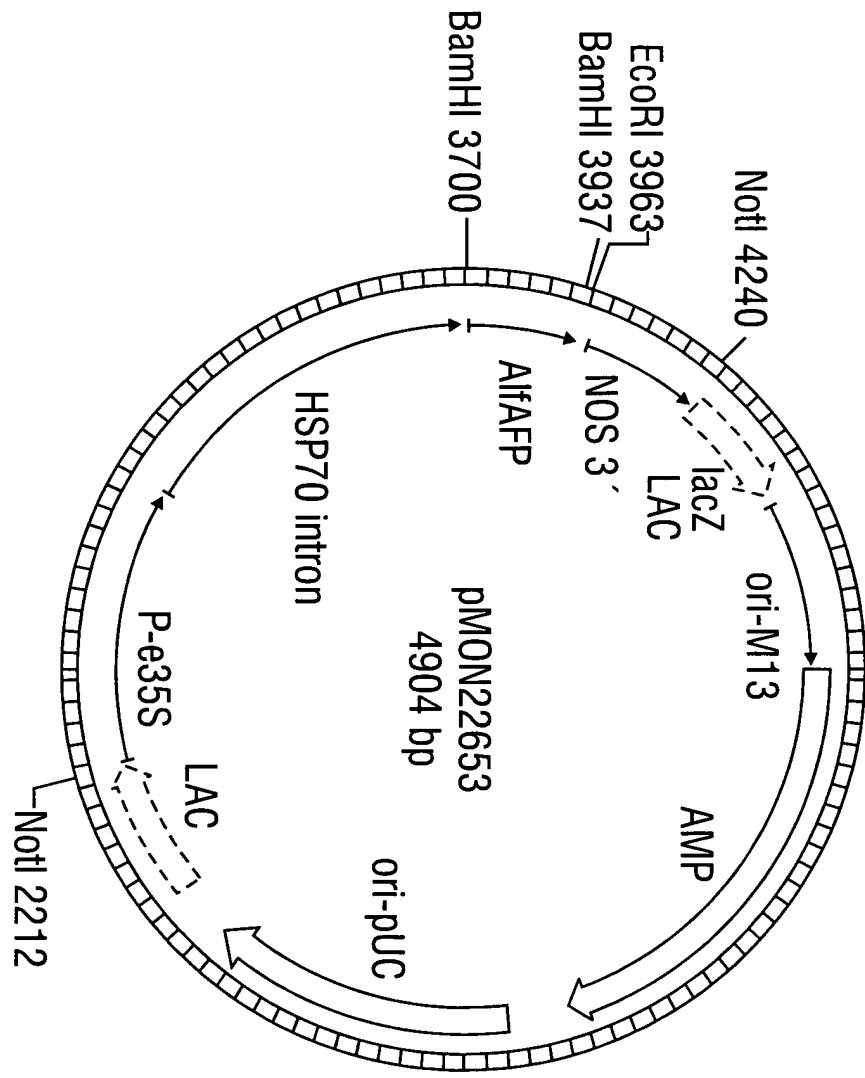


FIG. 5

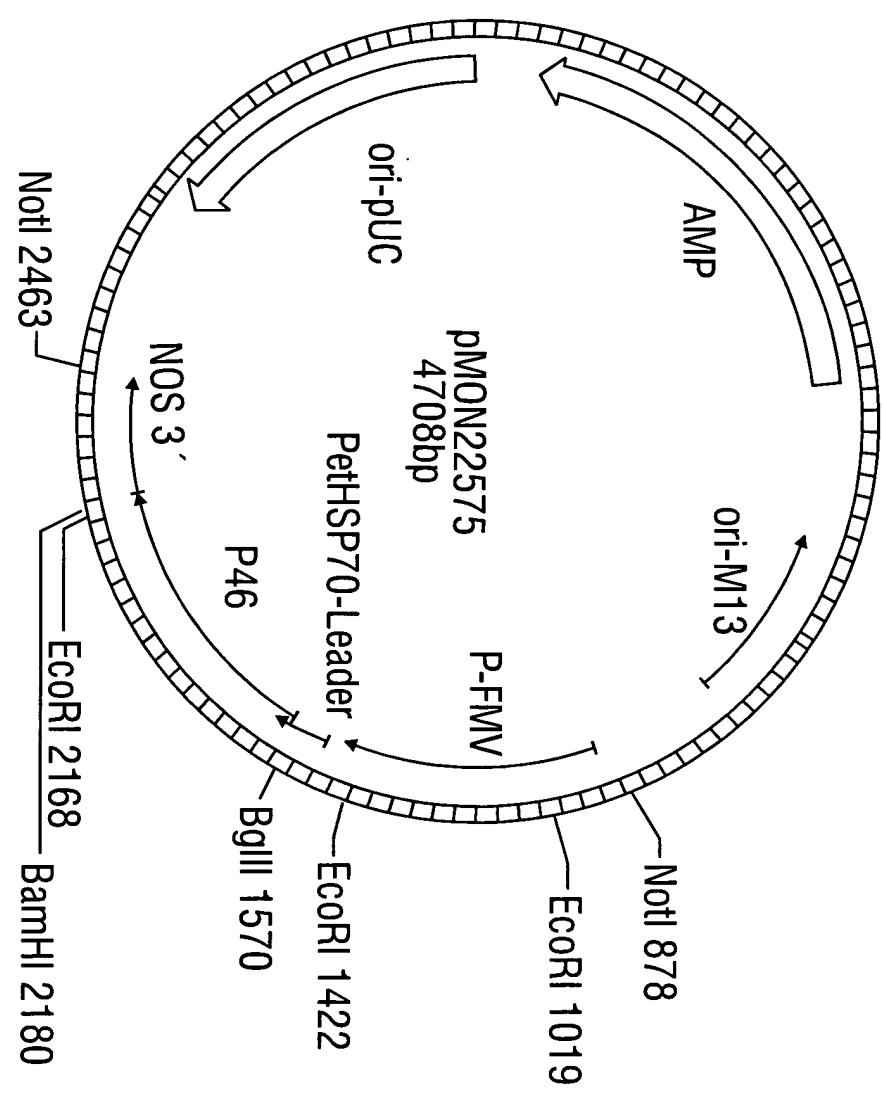


FIG. 6

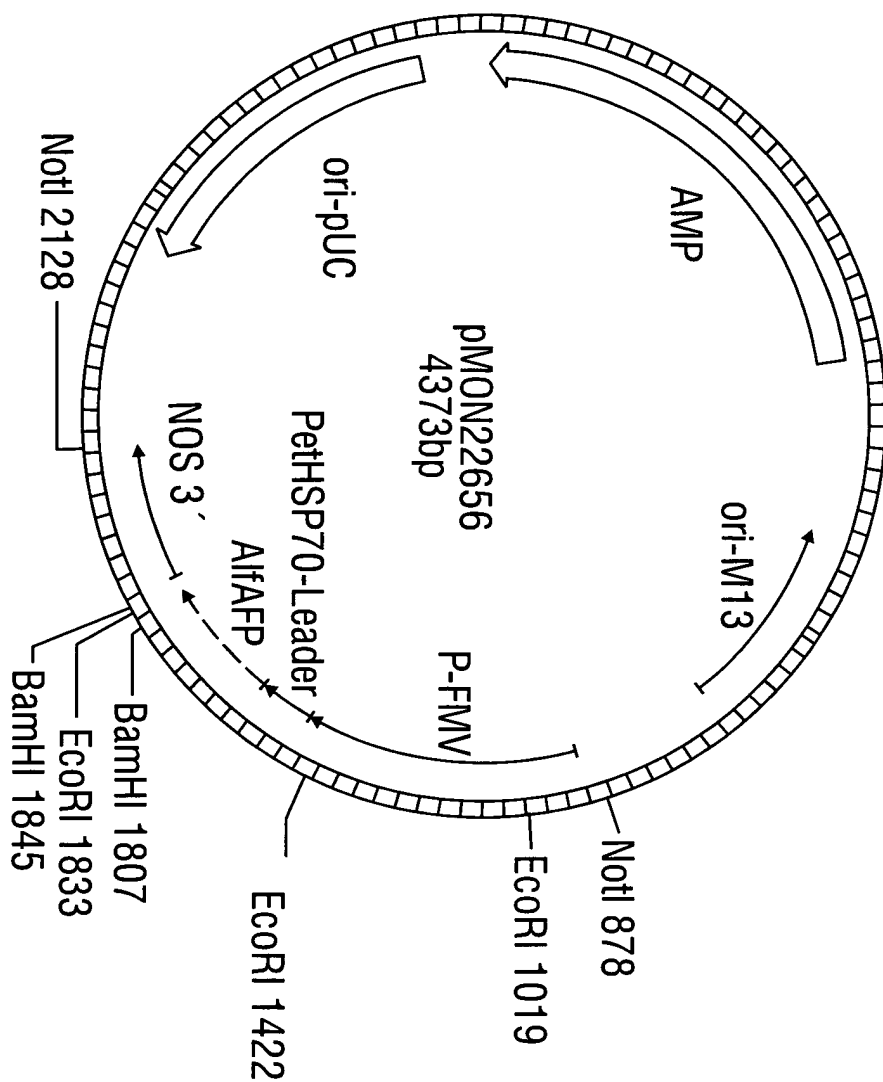


FIG. 7

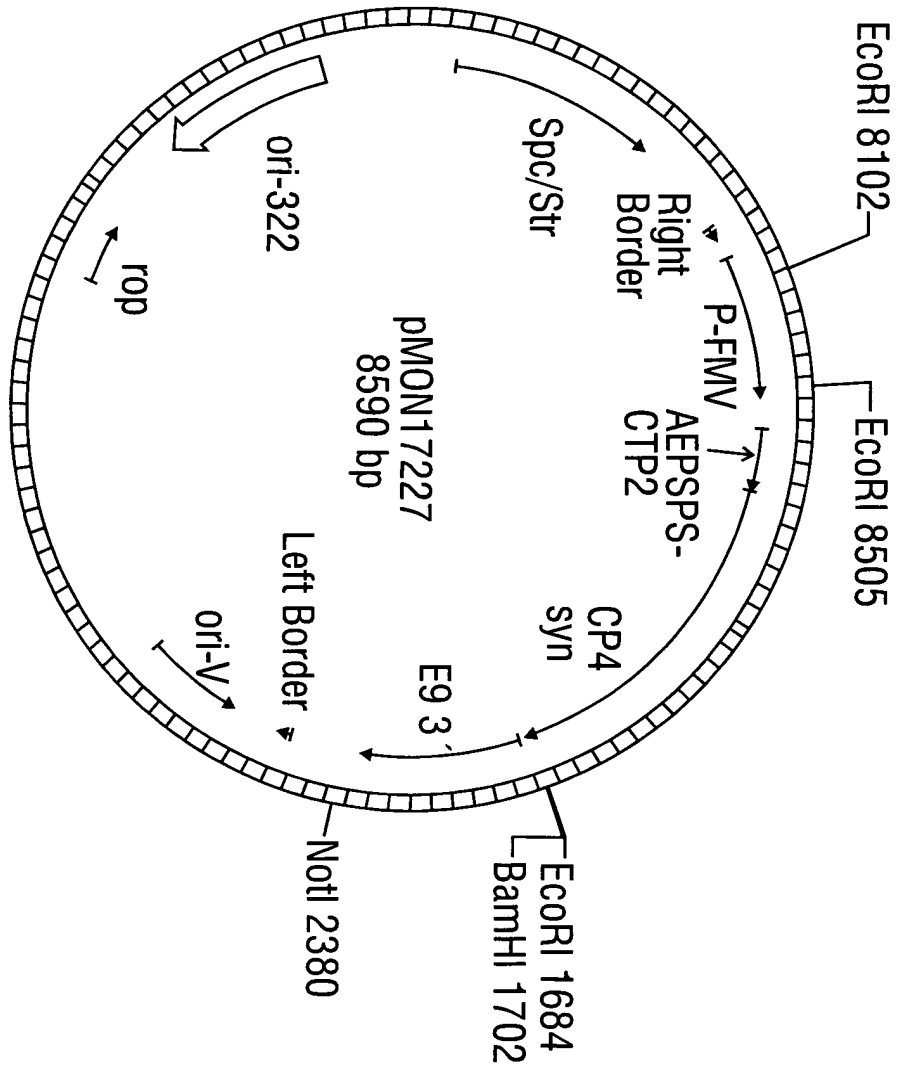


FIG. 8

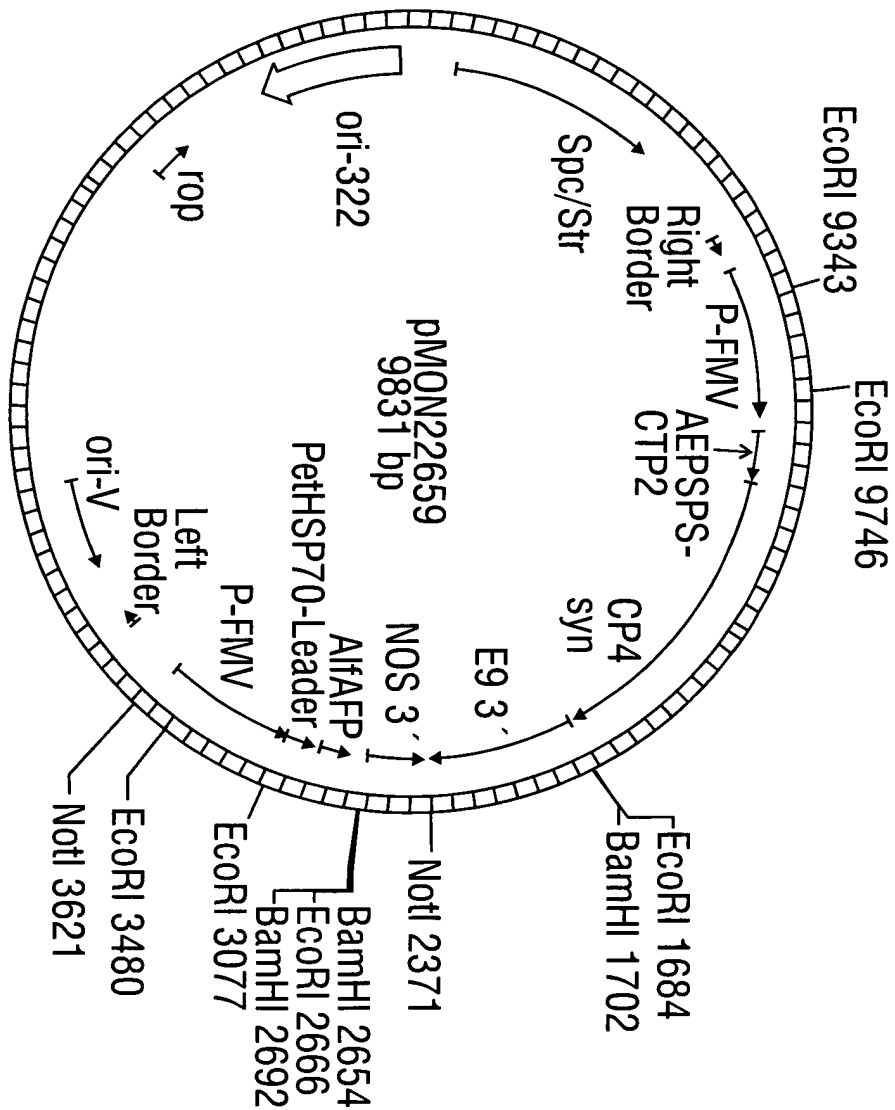


FIG. 9

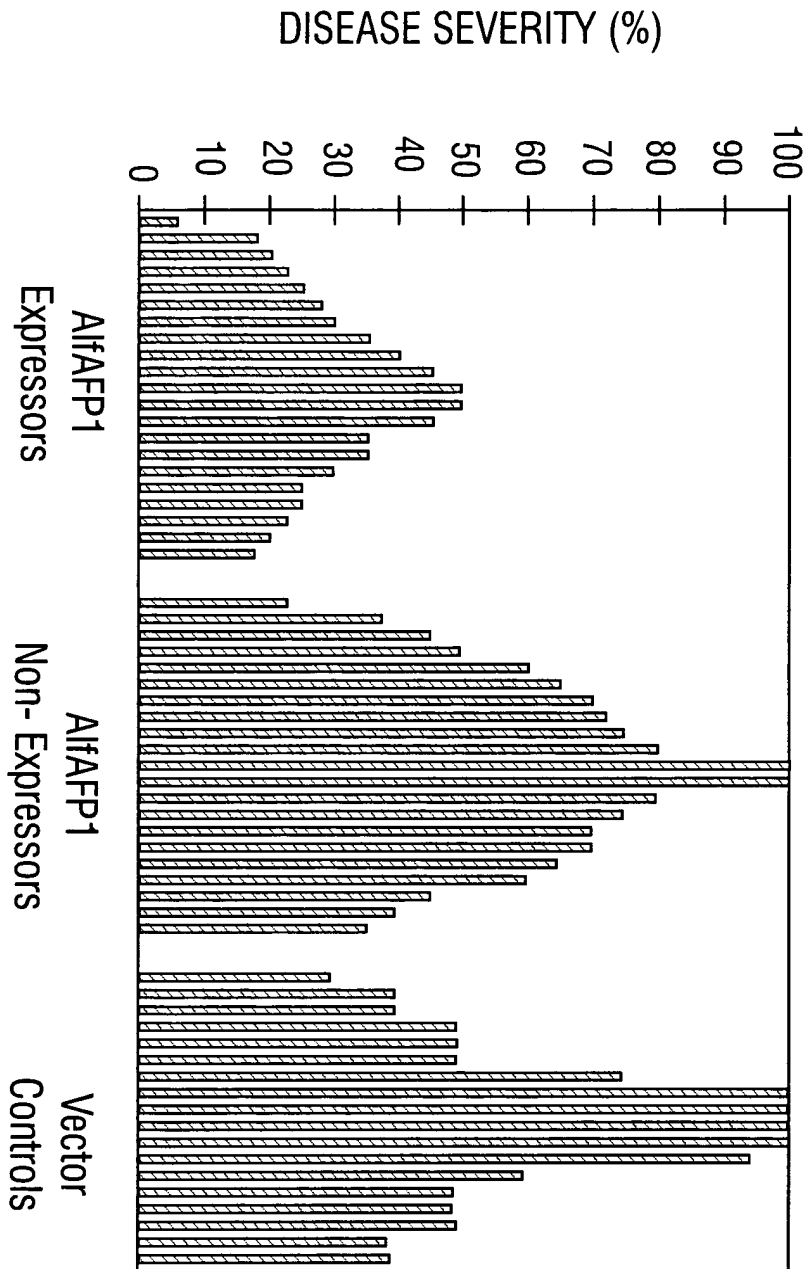


FIG.10

